## IN THE CLAIMS:

Please cancel claims 1-19 without prejudice or disclaimer as to the subject matter thereof.

## 1.-19. (canceled)

- 20. (currently amended) A system to <u>perform closed loop</u> control<u>led</u>
  delivery of electrical stimulation to <u>excitable neural tissue of a portion of the spine</u>
  of a ene or more nerves in a body, comprising:
- a sensing circuit to sense at least one physiologic parameter and provide an output signal related thereto;
- a stimulation circuit to provide the electrical stimulation to <u>excitable neural</u> tissue of a portion of the spine in response to the <u>output signal</u>the one or more nerves; and
- a <u>closed loop</u> control circuit coupled to the sensing circuit and to the stimulation circuit to control the stimulation circuit based on anticipation of an occurrence of a cardiac insult as indicated by the at least one physiologic parameter.
- 21. (original) The system of Claim 20, wherein the control circuit includes a patient-activation mechanism.
- 22. (original) The system of Claim 20, wherein the control circuit includes means for initiating the electrical stimulation in response to the at least one physiologic parameter sensed by the sensing circuit.
- 23. (original) The system of Claim 20, wherein the control circuit includes means for altering the electrical stimulation in response to the at least one physiologic parameter sensed by the sensing circuit.

- 24. (original) The system of Claim 20, wherein the control circuit includes means for ceasing the electrical stimulation in response to the at least one physiologic parameter sensed by the sensing circuit.
- 25. (original) The system of Claim 20, and further including means for notifying a patient of the anticipation of the occurrence of the cardiac insult.
- 26. (original) The system of Claim 20, wherein the stimulation circuit includes at least one implanted electrode.
- 27. (original) The system of Claim 20, wherein the stimulation circuit includes at least one subcutaneous electrode.
- 28. (original) The system of Claim 20, wherein the stimulation circuit includes at least one electrode positioned proximate an external surface of the body.
- 29. (original) The system of Claim 20, and further including a storage device coupled to the control circuit to store results of past electrical stimulation; and

wherein the control circuit include means for performing future electrical stimulation based on the results of past electrical stimulation.

30. (original) The system of Claim 20, and further including a drug delivery system coupled to the control circuit to deliver biologically-active agents based on the anticipation of the occurrence of the cardiac insult.

31. A device to provide electrical stimulation to at least one predetermined portion of excitable neural tissue of a portion of the spine of the nervous system in a patient's body, comprising:

means for sensing at least one physiologic indication in the patient's body; means for providing stimulation to the at least one predetermined portion of excitable neural tissue of a portion of the spine of a the nervous system in the patient's body; and

means for <u>performing closed loop</u> controlling <u>of</u> the stimulation means to provide the stimulation based on an indication of a probable future cardiac insult as determined by the at least one physiologic indication in the patient's body.

32. (original) An apparatus for protecting cardiac tissue from insult, comprising:

at least one electrode positionable at a region adjacent a portion of excitable neural tissue of a portion of the spine of a patient's nervous tissue;

a sensing circuit to detect at least one physiologic parameter; and a controller adapted to deliver <u>closed loop-controlled</u> electrical stimulation to the at least one electrode for a period of time prior to onset of an <u>cardiac</u> insult, wherein at least one parameter of the electrical stimulation is controlled as a function of the sensed physiologic parameter.

- 33. (original) The apparatus of Claim 32, wherein the controller includes means for delivering electrical stimulation for a period of time after the onset of the insult.
- 34. (original) The apparatus of Claim 33, wherein the controller includes means for delivering electrical stimulation for a period of time after the termination of the insult.

- The apparatus of claim 32, and further including a 35. (original) circuit coupled to the controller to provide electrical stimulation to cardiac tissue.
- The apparatus of claim 35, wherein the electrical (original) 36. stimulation comprises pacing pulses.